IN THE UNIT

STATES PATENT AND TRADEMAR

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Applicant:

Kie Y. Ahn et al.

Title:

BIPOLAR TRANSISTORS WITH LOW-RESISTANCE EMITTER CONTACTS

Docket No.:

303.466USI

Filed:

April 29, 1998

Examiner:

W. David Coleman

Commissioner for Patents Washington, D.C. 20231



Serial No.: 09/069,668

Due Date: January 16, 2002

Group Art Unit: 2823

COPY OF PAPERS ORIGINALLY FILED

We are transmitting herewith the following attached items (as indicated with an "X"):

- X A return postcard.
- X An Amendment and Response (6 Pages).
- \underline{X} A check in the amount of $\underline{\$84.00}$ to cover the fee for additional claims as calculated below.
- X A Clean Version of Pending Claims (7 pgs.).

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If an additional fee is required due to changes to the claims, the fee has been calculated as follows:

CLAIMS AS AMENDED						
	(1) Claims Remaining After Amendment		(2) Highest Number Previously Paid For	(3) Present Extra	Rate	Fee
TOTAL CLAIMS	35	-	38		x 18 =	\$0.00
INDEPENDENT CLAIMS	12	-	11	1	x 84 =	\$84.00
[] MULTIPLE DEPENDENT CLAIMS PRESENTED						\$0.00
TOTAL						\$84.00

Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional required fees or credit overpayment to Deposit Account No. 19-0743.

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S/NE09/069,668

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Kie Y. Ahn et ál. 09/069,668

Examiner: W. David Coleman

Serial No.: Filed:

April 29, 1998

Group Art Unit: 2823 Docket: 303.466US1

Title:

BIPOLAR TRANSISTORS WITH LOW-RESISTANCE EMITTER

CONTACTS

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Commissioner for Patents Washington, D.C. 20231

02/15/2002 HMARZI1 00000025 09069668

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Applicant has reviewed the Office Action mailed on October 16, 2001. Please amend the above-identified patent application as follows.

IN THE CLAIMS

Please cancel claim 39 without prejudice or disclaimer, and substitute the claim set in the appendix entitled Clean Version of Pending Claims for the previously pending claim set. The substitute claim set is intended to reflect cancellation of claim 39, and amendment of previously pending claims 4, 5, and 34. The specific amendments to individual claims are detailed in the following marked up set of claims.

4. (Amended) [The method of claim 1]A method of making an emitter contact for an emitter region of a bipolar transistor, the method comprising:

forming a polysilicon structure over an emitter region position of a semiconductive

substrate the substrate having a surface at the emitter region position, wherein forming the polysilicon structure on an emitter region position comprises:

forming a diffusion barrier layer; and

forming a polysilicon layer on the diffusion barrier layer; and

emitter contact entirely above the surface of the substrate at the emitter region position.

5. (Amended) [The method of claim 4]A method of making an emitter contact for an emitter region of a bipolar transistor, the method comprising:

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